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L11	123	virtual adj folder	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/28 09:49
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## 21 Virtual enterprise access control requirements

M. Coetzee, J. H. P. Eloff

 September 2003 **Proceedings of the 2003 annual research conference of the South African institute of computer scientists and information technologists on Enablement through technology**

 Full text available: [pdf\(126.63 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Current developments in IT point towards the formation of loosely coupled enterprises, often referred to as virtual enterprises. These enterprises require both secure and flexible collaboration between unrelated information systems. Web services technology can be used as an ideal platform for realising virtual enterprises throughh their ease of integration, flexibility, and support of XML vocabularies. To ensure the successful implementation of Web services within virtual enterprises, new approa ...

**Keywords:** B2B, SOAP, XML, access control, design, federation, management, roles, security, standardization, trust, virtual enterprises, web services

## 22 File and storage systems: Decentralized user authentication in a global file system

Michael Kaminsky, George Savvides, David Mazieres, M. Frans Kaashoek

 October 2003 **Proceedings of the nineteenth ACM symposium on Operating systems principles**

 Full text available: [pdf\(144.43 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The challenge for user authentication in a global file system is allowing people to grant access to specific users and groups in remote administrative domains, without assuming any kind of pre-existing administrative relationship. The traditional approach to user authentication across administrative domains is for users to prove their identities through a chain of certificates. Certificates allow for general forms of delegation, but they often require more infrastructure than is necessary to sup ...

**Keywords:** ACL, SFS, authentication, authorization, credentials, file system, groups, users

## 23 Next generation access control models: A logical specification for usage control

Xinwen Zhang, Jaehong Park, Francesco Parisi-Presicce, Ravi Sandhu

 June 2004 **Proceedings of the ninth ACM symposium on Access control models and**

**technologies**

Full text available:  [pdf\(145.03 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recently presented usage control (UCON) has been considered as the next generation access control model with distinguishing properties of decision continuity and attribute mutability. Usage control decision is determined by combining authorizations, obligations, and conditions, presented as *UCONABC* core models by Park and Sandhu. Based on these core aspects, we develop a first-order logic specification of UCON with Lamport's temporal logic of actions (TLA). The building blocks o ...

**Keywords:** access control, logic specification, security policy, usage control


**24 A flexible access control mechanism for CAD frameworks**

A. J. van der Hoeven, Olav ten Bosch, Rene van Leuken, Pieter van der Wolf  
September 1994 **Proceedings of the conference on European design automation**

Full text available:  [pdf\(704.03 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**25 A role-based access control model and reference implementation within a corporate intranet**

David F. Ferraiolo, John F. Barkley, D. Richard Kuhn  
February 1999 **ACM Transactions on Information and System Security (TISSEC)**, Volume 2  
Issue 1


Full text available:  [pdf\(252.60 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes NIST's enhanced RBAC model and our approach to designing and implementing RBAC features for networked Web servers. The RBAC model formalized in this paper is based on the properties that were first described in Ferraiolo and Kuhn [1992] and Ferraiolo et al. [1995], with adjustments resulting from experience gained by prototype implementations, market analysis, and observations made by Jansen [1988] and Hoffman [1996]. The implementation of RBAC for the Web (RBAC/Web) p ...

**Keywords:** RBAC, Web arrows, World Wide Web, access control, authorization management, role based access

**26 Flexible enterprise access control with object-oriented view specification**

Mark Evered  
January 2003 **Proceedings of the Australasian information security workshop conference on ACSW frontiers 2003 - Volume 21**

Full text available:  [pdf\(99.87 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The per-method access control lists of standard middleware technologies allow only simple forms of access control to be expressed and enforced. Given the increasing use of web-based applications involving sensitive data, the increased threat and the stringent requirements of privacy laws, a more flexible and secure approach is needed. In this paper we present a three-step approach to access control involving object-oriented encapsulation, middleware based on a new, more secure access control mechanism ...

**Keywords:** access control, object-oriented systems, web-based systems

**27 Migrating to role-based access control**

Kami Brooks

October 1999 **Proceedings of the fourth ACM workshop on Role-based access control**

Full text available:  [pdf\(1.22 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** Tivoli Management Environment, enterprise systems management, migration, role-based access control, security management

## 28 Managing trust between collaborating companies using outsourced role based access control

Thomas Hildmann, Jörg Barholdt


October 1999 **Proceedings of the fourth ACM workshop on Role-based access control**

Full text available:  [pdf\(885.42 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

## 29 Access control mechanisms for inter-organizational workflow

Myong H. Kang, Joon S. Park, Judith N. Froscher

May 2001 **Proceedings of the sixth ACM symposium on Access control models and technologies**

Full text available:  [pdf\(253.16 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As more businesses engage in globalization, inter-organizational collaborative computing grows in importance. Since we cannot expect homogeneous computing environments in participating organizations, heterogeneity and Internet-based technology are prevalent in inter-organizational collaborative computing environments. One technology that provides solutions for data sharing and work coordination at the global level is inter-organizational workflow. In this paper, we investigate the access co ...

**Keywords:** access control, enterprise, organizational security, security, workflow

## 30 Access Control Models and Mechanisms: Cryptographic access control in a distributed file system

Anthony Harrington, Christian Jensen

June 2003 **Proceedings of the eighth ACM symposium on Access control models and technologies**

Full text available:  [pdf\(249.24 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Traditional access control mechanisms rely on a reference monitor to mediate access to protected resources. Reference monitors are inherently centralized and existing attempts to distribute the functionality of the reference monitor suffer from problems of scalability. Cryptographic access control is a new distributed access control paradigm designed for a global federation of information systems. It defines an implicit access control mechanism, which relies exclusively on cryptography to provide ...

**Keywords:** access control, cryptography, network file systems

## 31 CACL: efficient fine-grained protection for objects

Joel Richardson, Peter Schwarz, Luis-Felipe Cabrera

October 1992 **ACM SIGPLAN Notices , conference proceedings on Object-oriented programming systems, languages, and applications**, Volume 27 Issue 10

Full text available:  pdf(1.61 MB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**32 Structure of mathematical programming systems**

WM. Orchard Hays

January 1968 **Proceedings of the 1968 23rd ACM national conference**Full text available:  pdf(1.47 MB)Additional Information: [full citation](#), [abstract](#), [index terms](#)

A mathematical programming system (MPS), as now implemented on third generation computers, constitutes four separate subject areas: 1. Algorithmic and procedural capabilities 2. Problem formulation and solution techniques 3. Programming languages 4. System structure and use Each of these areas involves extensive considerations and we can not do justice to any of them in the time available. Since problem formulation and solution techniqu ...

**33 ACL: a language specific for auditors**

H. J. Will


May 1983 **Communications of the ACM**, Volume 26 Issue 5Full text available:  pdf(702.05 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Audit software is essential for accountants. The software should be written to consolidate the audit support functions into a common language for management information systems (MIS). ACL (Audit Command Language) is a prototype language for designing a feasible interactive conversational language for auditing purposes.

**Keywords:** audit and control, audit command language, audit interfaces, audit language, audit software, audit techniques, audit tools, computer-based auditing, human-machine auditing, interactive auditing

**34 Team-and-role-based organizational context and access control for cooperative hypermedia environments**

Weigang Wang

February 1999 **Proceedings of the tenth ACM Conference on Hypertext and hypermedia : returning to our diverse roots: returning to our diverse roots**Full text available:  pdf(2.13 MB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** cooperative hypermedia, coordination, groupware, process support, role-based access control, workflow

**35 Managing role/permission relationships using object access types**

John Barkley, Anthony Cincotta


October 1998 **Proceedings of the third ACM workshop on Role-based access control**Full text available:  pdf(4.62 MB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**36 Specifying and managing role-based access control within a corporate intranet**

David Ferraiolo, John Barkley

November 1997 **Proceedings of the second ACM workshop on Role-based access control**

Full text available:

Additional Information:

 [pdf\(725.43 KB\)](#)[full citation](#), [references](#), [citations](#), [index terms](#)

### 37 Web and e-business application: An agreement centric access control mechanism for business to business e-commerce

Victoria Ungureanu

March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**Full text available:  [pdf\(556.10 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We argue that matrix-based models are inadequate for regulating business to business (or B2B, for short) e-commerce due to the diversity, complexity and potential large number of commercial agreements that have to be supported. To deal with these issues, we propose in this paper an agreement-centric access control model. The paper introduces the concept of communication agreement (CAR) as a means for specifying contractual terms, and presents the CAR enforcement mechanism. We explore ...

### 38 Access control: Comparing the expressive power of access control models

Mahesh V. Tripunitara, Ninghui Li

October 2004 **Proceedings of the 11th ACM conference on Computer and communications security**Full text available:  [pdf\(152.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Comparing the expressive power of access control models is recognized as a fundamental problem in computer security. Such comparisons are generally based on simulations between different access control schemes. However, the definitions for simulations that are used in the literature make it impossible to put results and claims about the expressive power of access control models into a single context and to compare such models to one another in a meaningful way.

We propose a theory for ...

**Keywords:** augmented typed access matrix, discretionary access control, expressive power, reduction, role-based access control, state-matching reduction, typed access matrix

### 39 Access Control Management and Models: Towards usage control models: beyond traditional access control

Jaehong Park, Ravi Sandhu

June 2002 **Proceedings of the seventh ACM symposium on Access control models and technologies**Full text available:  [pdf\(246.23 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we develop the concept of Usage Control (UCON) that encompasses traditional access control, trust management, and digital rights management and goes beyond them in its definition and scope. While usage control concepts have been mentioned off and on in the security literature for some time, there has been no systematic treatment so far. By unifying these three areas UCON offers a promising approach for the next generation of access control. Traditional access control has focused on ...

### 40 High assurance discretionary access control for object bases

Elisa Bertino, Pierangela Samarati, Sushil Jajodia

December 1993 **Proceedings of the 1st ACM conference on Computer and communications security**Full text available:  [pdf\(1.17 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

terms

Discretionary access control, based on checking access requests against users' authorizations, does not provide any way of restricting the usage of information once it has been "legally" accessed. This makes discretionary systems vulnerable to Trojan Horses maliciously leaking information. Therefore the need arises for providing additional controls limiting the indiscriminate flow of information in the system. This paper proposes a message filter complementing discretionary auth ...

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